

AN - 1980-91483C [51]

CPY - AKMI-R

- TEKE-R

DC - M25

FS - CPI

IC - C22B3/00 ; C22B13/04 ; C22B19/00

IN - ILYALET DIN A N; KAMALOV M R; STUKANOV V A

MC - M25-B M25-G14 M25-G27

PA - (AKMI-R) AS KAZA MICROBIOL

- (TEKE-R) TEKEL LEAD-ZINC COMBINE

PN - SU730848 A 19800505 DW198051 000pp

PR - SU19772510707 19770715

XIC - C22B-003/00 ; C22B-013/04 ; C22B-019/00

AB - SU-730848 The speed of oxidn of galenite by Thiobacillus ferrooxidans in bacterial leaching of intermediate prods from lead-zinc ore flotation is increased by raising the temp of 60-65 degrees C.

- In an example, froth prod from lead flotation contg. 10% Pb and 7% Zn, predominantly (over 90%) in the form of galenite and sphalerite, and up to 12% amorphous carbon of size 200 mesh is oxidised by bacterial solns contg. 20-25 g/litre Fe at 60-65 degrees C. Leaching time is 3-5 hr., using propeller-type mixers; 96-98% Pb and 70% Zn is extracted. Lead sulphate is washed out of the cake with 26-28% NaCl solns at a solid-to-liquid ratio of 1:10.

IW - BACTERIA LEACH METAL LEAD ZINC ORE THIOBACILLUS FERROOXIDANS INCREASE TEMPERATURE RAISE OXIDATION GALENITE

IKW - BACTERIA LEACH METAL LEAD ZINC ORE THIOBACILLUS FERROOXIDANS INCREASE TEMPERATURE RAISE OXIDATION GALENITE

INW - ILYALET DIN A N; KAMALOV M R; STUKANOV V A

NC - 001

OPD - 1977-07-15

ORD - 1980-05-05

PAW - (AKMI-R) AS KAZA MICROBIOL

- (TEKE-R) TEKEL LEAD-ZINC COMBINE

TI - Bacterial leaching of metals from lead-zinc ores - using Thiobacillus ferrooxidans at increased temp. to raise oxidn. of galenite